



February 7, 2002  
Project No. 97664V3

Mr. Todd Croft  
Nevada Division of Environmental Protection  
1771 E. Flamingo Road, Suite 121-A  
Las Vegas, Nevada 89119

**RE: Results of Monthly Surface Water Sampling of the Las Vegas Wash at the Northshore Road Bridge**

PROVIDING

- Geotechnical Engineering
- Construction Materials Engineering
- Environmental Engineering
- Drilling Services

Dear Mr. Croft:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas Wash on January 29, 2002 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 510 micrograms per Liter ( $\mu\text{g/L}$ ). The NEL report is included with this letter, along with Perchlorate Summary Tables for 2001 and 2002.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report.

We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

**Geotechnical & Environmental Services, Inc.**

Richard Cooke  
Staff Geologist

Daniel C. Burns, C.E.M.\*  
#1692 (Expires 10/07/2003)  
Project Manager

"I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

dn

Enc: 2000 & 2001 Perchlorate Summary Tables  
NEL Analytical Report

Dist: 1 original mailed to addressee  
1 faxed to addressee at 486-2863  
cc: fax to Jeff Gibson, American Pacific Corporation  
cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105  
cc: to project file 97664V3

**Las Vegas Wash at Northshore Road Bridge  
2001 Summary of Perchlorate Concentrations**

<b>DATE SAMPLED</b>	<b>PERCHLORATE (µg/L)</b>
1/25/01	280
2/27/01	350
3/27/01	480
4/26/01	320
5/29/01	240
6/27/01	400
7/25/01	550
8/27/01	420
9/27/01	460
10/25/01	420
11/27/01	810
12/27/01	440

**Las Vegas Wash at Northshore Road Bridge  
2002 Summary of Perchlorate Concentrations**

<b>DATE SAMPLED</b>	<b>PERCHLORATE (µg/L)</b>
1/29/02	510

## NEL LABORATORIES

Reno • Las Vegas  
Phoenix • BoiseLas Vegas Division  
4208 Arcata Way, Suite A • Las Vegas, Nevada 89030  
702-657-1010 • Fax: 702-657-1577  
1-888-368-3282

CLIENT: Geotechnical & Env. Serv.  
7150 Placid  
Las Vegas, NV 89119

ATTN: Dan Burns

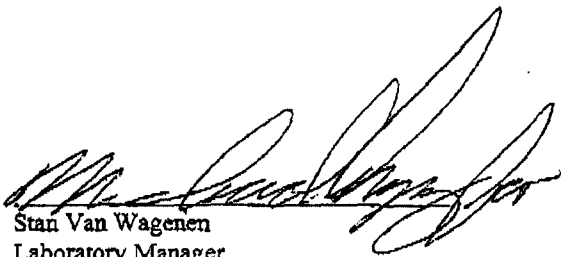
PROJECT NAME: FPF  
PROJECT NUMBER: 97664 V3

NEL ORDER ID: L0201260

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 1/29/02.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

  
Stan Van Wagenen  
Laboratory Manager

  
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

**NEL LABORATORIES**

CLIENT: Geotechnical & Env. Serv.  
PROJECT ID: FPF  
PROJECT #: 97664 V3

CLIENT ID: Northshore Road Bridge  
DATE SAMPLED: 1/29/02  
NEL SAMPLE ID: L0201260-01

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>RESULT</u>	<u>R. L.</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	510	40.	10	EPA 314	µg/L	2/5/02

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

*This report shall not be reproduced except in full, without the written approval of the laboratory.*

**NEL LABORATORIES**

CLIENT: Geotechnical & Env. Serv.  
PROJECT ID: FPF  
PROJECT #: 97664 V3  
TEST: Non-Metals

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 020205CLO4-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	ND	4	1	EPA 314	µg/L	2/5/02

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

Reno • Las Vegas • Boise  
Phoenix • Sacramento

Las Vegas Division • 4208 Arcata Way, Suite A • Las Vegas, Nevada 89030  
702-657-1010 • Fax: 702-657-1577 • 888-368-3282

Company: CES

Attention: DAV BURNS

Address:

Phone Number:

Fax Number:

Billing Address:

Expected Due Date:

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

Time/Date Sampled

Customer Sample Identification

NEL Identification

04/15/11 129102 Northshore Road Bridge

01

# of Containers

Matrix (Box #1)

Preservative (Box #2)

1 AR E X

Pachlorate

Analysis

Remarks

## CHAIN OF CUSTODY

NEL Work Order: L020126008

Project Name:

CPCE

Project Number:

97664 V3

Purchase Order Number: 10130102 Per Don

Sampled By:

Donna D Burns

Custody Seal Intact? ☒ Y ☒ N (None) Temp. 70C  
Condition when received good

Box #1  
DW - Drinking Water  
WW - Waste Water  
OL - Organic Liquid  
SD - Solid  
AQ - Aqueous  
A - Air

Box #2  
A - HCl  
B - HNO<sub>3</sub>  
C - H<sub>2</sub>SO<sub>4</sub>  
D - NaOH  
E - Ice Only  
F - Other  
G - Not Preserved

Requested by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 DAV BURNS	<i>DAV BURNS</i>	1/29/02 0950	Steve Davidson	<i>Steve Davidson</i>	1/29/02, 0950
2 <del>DAV BURNS</del>	<del><i>DAV BURNS</i></del>				
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CofC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Lab Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

ORIGINAL